Steven Watterson

List of Publications by Year in descending order

40 papers	2,313 citations	471061 17 h-index	360668 35 g-index
42 all docs	42 docs citations	42 times ranked	3923 citing authors

#	Article	IF	Citations
1	The Systems Biology Graphical Notation. Nature Biotechnology, 2009, 27, 735-741.	9.4	828
2	The Transcription Factor STAT-1 Couples Macrophage Synthesis of 25-Hydroxycholesterol to the Interferon Antiviral Response. Immunity, 2013, 38, 106-118.	6.6	327
3	Host Defense against Viral Infection Involves Interferon Mediated Down-Regulation of Sterol Biosynthesis. PLoS Biology, 2011, 9, e1000598.	2.6	241
4	Propionibacterium acnes and Acne Vulgaris: New Insights from the Integration of Population Genetic, Multi-Omic, Biochemical and Host-Microbe Studies. Microorganisms, 2019, 7, 128.	1.6	125
5	The genetics and screening of familial hypercholesterolaemia. Journal of Biomedical Science, 2016, 23, 39.	2.6	115
6	Systems medicine disease maps: community-driven comprehensive representation of disease mechanisms. Npj Systems Biology and Applications, 2018, 4, 21.	1.4	84
7	Digital clocks: simple Boolean models can quantitatively describe circadian systems. Journal of the Royal Society Interface, 2012, 9, 2365-2382.	1.5	67
8	A comprehensive machine-readable view of the mammalian cholesterol biosynthesis pathway. Biochemical Pharmacology, 2013, 86, 56-66.	2.0	64
9	Logic models of pathway biology. Drug Discovery Today, 2008, 13, 447-456.	3.2	54
10	An Interferon Regulated MicroRNA Provides Broad Cell-Intrinsic Antiviral Immunity through Multihit Host-Directed Targeting of the Sterol Pathway. PLoS Biology, 2016, 14, e1002364.	2.6	45
11	Computational modelling of atherosclerosis. Briefings in Bioinformatics, 2016, 17, 562-575.	3.2	44
12	Construction of a large scale integrated map of macrophage pathogen recognition and effector systems. BMC Systems Biology, 2010, 4, 63.	3.0	35
13	Rapid proteasomal elimination of 3-hydroxy-3-methylglutaryl-CoA reductase by interferon-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si28.gif" overflow="scroll"><mml:mrow><mml:mi>Î³</mml:mi></mml:mrow></mml:math> in primary macrophages requires endogenous 25-hydroxycholesterol synthesis. Steroids, 2015, 99, 219-229.	0.8	34
14	A model of flux regulation in the cholesterol biosynthesis pathway: Immune mediated graduated flux reduction versus statin-like led stepped flux reduction. Biochimie, 2013, 95, 613-621.	1.3	32
15	Role of tumour necrosis factor alpha converting enzyme (TACE/ADAM17) and associated proteins in coronary artery disease and cardiac events. Archives of Cardiovascular Diseases, 2017, 110, 700-711.	0.7	24
16	The Interdependency and Co-Regulation of the Vitamin D and Cholesterol Metabolism. Cells, 2021, 10, 2007.	1.8	24
17	Deep learning in systems medicine. Briefings in Bioinformatics, 2021, 22, 1543-1559.	3.2	22
18	Network and Systems Medicine: Position Paper of the European Collaboration on Science and Technology Action on Open Multiscale Systems Medicine. Network and Systems Medicine, 2020, 3, 67-90.	2.7	18

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19	Is systems pharmacology ready to impact upon therapy development? A study on the cholesterol biosynthesis pathway. British Journal of Pharmacology, 2017, 174, 4362-4382.	2.7	17
20	New models of atherosclerosis and multi-drug therapeutic interventions. Bioinformatics, 2019, 35, 2449-2457.	1.8	17
21	Use of logic theory in understanding regulatory pathway signaling in response to infection. Future Microbiology, 2010, 5, 163-176.	1.0	15
22	Opportunities for multiscale computational modelling of serotonergic drug effects in Alzheimer's disease. Neuropharmacology, 2020, 174, 108118.	2.0	14
23	The role of senescence in the pathogenesis of atrial fibrillation: A target process for health improvement and drug development. Ageing Research Reviews, 2021, 69, 101363.	5.0	10
24	An Early Stage Researcher's Primer on Systems Medicine Terminology. Network and Systems Medicine, 2021, 4, 2-50.	2.7	9
25	The Need for Standardizing Diagnosis, Treatment and Clinical Care of Cholecystitis and Biliary Colic in Gallbladder Disease. Medicina (Lithuania), 2022, 58, 388.	0.8	8
26	Inferring Boolean networks with perturbation from sparse gene expression data: a general model applied to the interferon regulatory network. Molecular BioSystems, 2008, 4, 1024.	2.9	5
27	Regulation and feedback of cholesterol metabolism. Nature Precedings, 2011, , .	0.1	5
28	Coincidence versus consequence: opportunities in multi-morbidity research and inflammation as a pervasive feature. Expert Review of Precision Medicine and Drug Development, 2017, 2, 147-156.	0.4	5
29	Translation from the Quantified Implicit Process Flow Abstraction in SBGN-PD Diagrams to Bio-PEPA Illustrated on the Cholesterol Pathway. Lecture Notes in Computer Science, 2011, , 13-38.	1.0	4
30	Anti-tumour necrosis factor-alpha response associated with combined CD226 and HLA-DRB1[*]0404 haplotype in rheumatoid arthritis. Clinical and Experimental Rheumatology, 2021, 39, 385-392.	0.4	4
31	THE CHIRAL AND FLAVOR PROJECTION OF DIRACâ€“KÃ„HLER FERMIONS IN THE GEOMETRIC DISCRETIZATION. International Journal of Geometric Methods in Modern Physics, 2008, 05, 345-362.	0.8	3
32	The in silico macrophage: toward a better understanding of inflammatory disease. Genome Medicine, 2011, 3, 4.	3.6	3
33	An exploratory analysis investigating blood protein biomarkers to augment ECG diagnosis of ACS. Journal of Electrocardiology, 2019, 57, S92-S97.	0.4	3
34	Inference of transition probabilities between the attractors in Boolean networks with perturbation. , 2009, , .		1
35	Anti-tumour necrosis factor-alpha response associated with combined CD226 and HLA-DRB1[*]0404 haplotype in rheumatoid arthritis. Clinical and Experimental Rheumatology, 2021, 39, 385-392.	0.4	1
36	The flavour projection of staggered fermions and the quarter-root trick. Journal of High Energy Physics, 2007, 2007, 048-048.	1.6	0

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37	Transcriptional complex assembly represented in SBGN PD. Nature Precedings, 2010, , .	0.1	0
38	Corrigendum for the paper â€˜Digital clocks: simple Boolean models can quantitatively describe circadian systemsâ€™. Journal of the Royal Society Interface, 2012, 9, 3578-3578.	1.5	0
39	Gap widens for honorary PhDs. Nature, 2016, 537, 167-167.	13.7	0
40	In silico patient stratification for atherosclerosis. Atherosclerosis, 2017, 263, e82.	0.4	0